Review Test Submission: Quiz 9.2

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Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 9.2
Started	11/17/20 9:22 AM
Submitted	11/17/20 9:24 AM
Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	1 minute
Results Displayed	All Answers, Submitted Answers, Incorrectly Answered Questions

Question 1   1 out of 1 points

A Bode plot of a second order system $G(s) = \dfrac{\omega_n^2}{s^2 + 2\zeta\omega_n s + \omega_n^2}$ has a phase loss of how many degrees as phase increases from 0 to ∞?

Selected Answer:

    180°

Answers:

    270°

    180°

    0°

    90°

Question 2   1 out of 1 points

The magnitude of the frequency response of a second-order system with no zeros has which of the following characteristics? (More than one response may be correct.)

Selected Answers:

    Magnitude decreasing at -40 dB/decade at high frequencies
    Constant magnitude at low frequencies

Answers:

    Magnitude decreasing at -40 dB/decade at high frequencies
    Constant magnitude at high frequencies
    Increasing magnitude at +20 dB/decade a low frequencies

    Magnitude decreasing at -20 dB/decade at high frequencies
    Constant magnitude at low frequencies

Question 3   1 out of 1 points

The magnitude of the frequency response of a first-order system has which of the following characteristics? (More than one response may be correct.)

Selected Answers:

    Magnitude decreasing at -20 dB/decade at high frequencies
    Constant magnitude at low frequencies

Answers: Increasing magnitude at +20 dB/decade a low frequencies

    Magnitude decreasing at -40 dB/decade at high frequencies

    Magnitude decreasing at -20 dB/decade at high frequencies
    Constant magnitude at low frequencies
    Constant magnitude at high frequencies

Question 4   1 out of 1 points

True or false? A Bode plot of a system can have non-constant gain at low frequencies if the system contains at least one pole at the origin.

Selected Answer: True

Answers: True

    False

Tuesday, November 17, 2020 9:24:04 AM MST

← OK